

Amendments to the Abstract:

ABSTRACT OF THE DISCLOSURE

~~There is the problem that when~~ When voltage changes occur in the battery used as a power supply in a fuel injection system, the amount of fuel injection also changes and the required amount of fuel injected cannot be obtained. ~~The present invention provides: a fuel injector by which the desired amount of fuel injection can be obtained even when power voltage changes occur; and a control of controlling the fuel injector. To provide~~ To eliminate this problem, a fuel injector system is provided which has ~~comprising~~ a fuel injection valve with at least one coil, a power supply 103, a power supply voltage detection means ~~108~~ detector, and a control unit 102 for controlling the fuel injection valve; ~~wherein~~. The control unit sets a reference value of a power supply voltage, ~~is set~~ and the above-mentioned fuel injection valve is controlled so as to obtain the required ampere-turns by reducing the resultant inductance of the coil when a power supply voltage detection value is less than the above-mentioned reference value, and ~~increasing~~ the resultant inductance of the coil is increased when the power voltage detection value is greater than the reference value.

[Selected Figure] Fig. 1